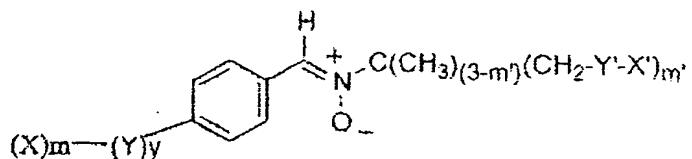


CLAIMS

1. A compound, characterized in that it corresponds to the formula (I):



(I)

5

in which:

X represents a hydrophilic group which is selected from a monosaccharide or a polysaccharide as well as amino derivatives of monosaccharides and 10 polysaccharides, a poly(ethylene oxide) chain, a peptide chain, a polar ionic group selected from a quaternary ammonium, an amine oxide, or a carnitine group;

m represents an integer equal to 1, 2 or 3;

15 Y represents a spacer arm which is intended to link the aromatic nucleus to the hydrophilic X substituents;

20 Y is selected from ester, amide, urea, urethane, ether, thioether and amine functions, and C₁-C₆ hydrocarbon chains which are optionally interrupted by one or more ester, amide, urea or urethane functions and by one or more ether, amine or thioether bridges;

25 y represents an integer equal to 0 or to 1;

Y' represents a group selected from an ester function, an amide function, a urea function, a urethane function, an ether bridge or a thioether bridge;

30 m' is an integer selected from 1 and 2;

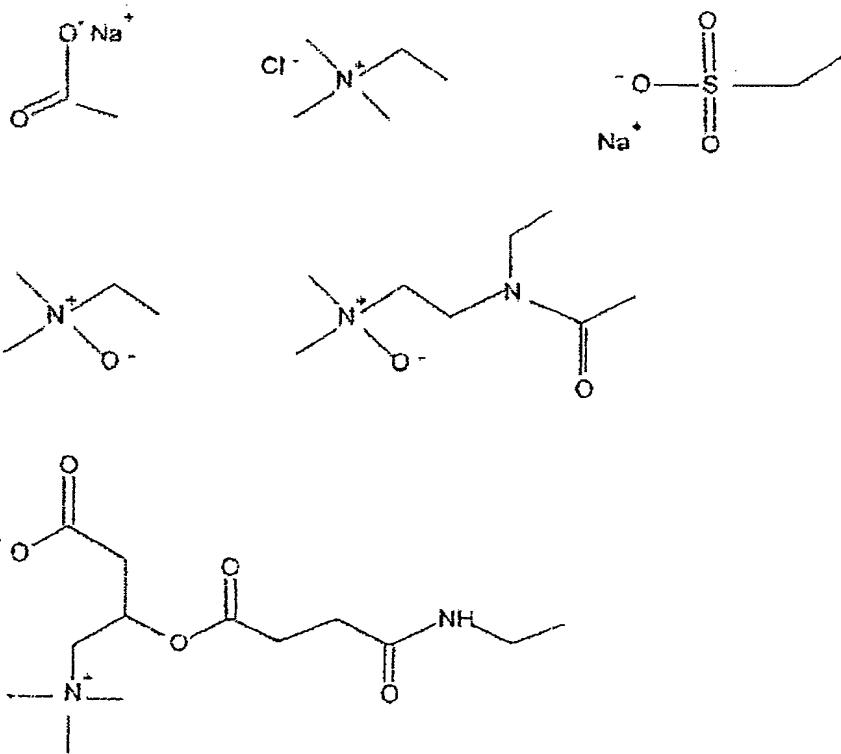
X' represents a hydrogen atom or a C₄-C₁₄ alkyl chain which is optionally substituted by one or more fluorine atoms.

2. The compound as claimed in claim 1, characterized in that X represents a group selected

from: glucose, lactose, fructose, mannose, galactose, ribose, maltose, glucosamine, sucrose and lactobionamide.

3. A compound as claimed in claim 1,
5 characterized in that X represents a group selected from poly(ethylene oxide) chains comprising from 30 to 100 ethylene oxide units, preferably from 50 to 60 units.

4. A compound as claimed in claim 1,
10 characterized in that X represents a group selected from



5. A compound as claimed in claim 1,
characterized in that at least one of the following
15 conditions is satisfied:

X represents a group selected from: lactobionamide, carnitine or a polyoxyethylene chain;

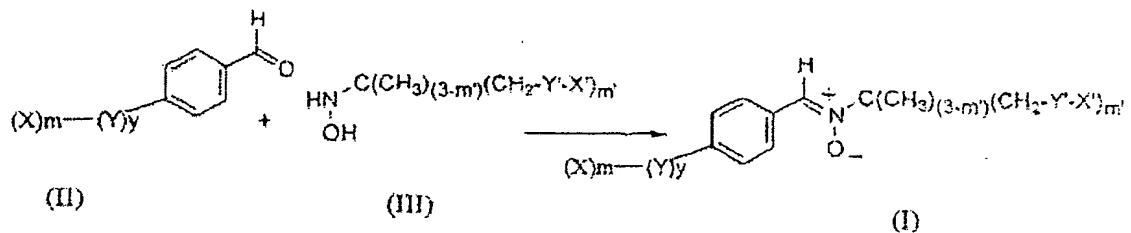
m represents 1;

m' represents 1 or 2;

20 X' is selected from the groups octyl, decyl, dodecyl and $\text{CF}_3(\text{CF}_2)_r\text{CH}_2\text{CH}_2-$, where $8 \geq r \geq 6$.

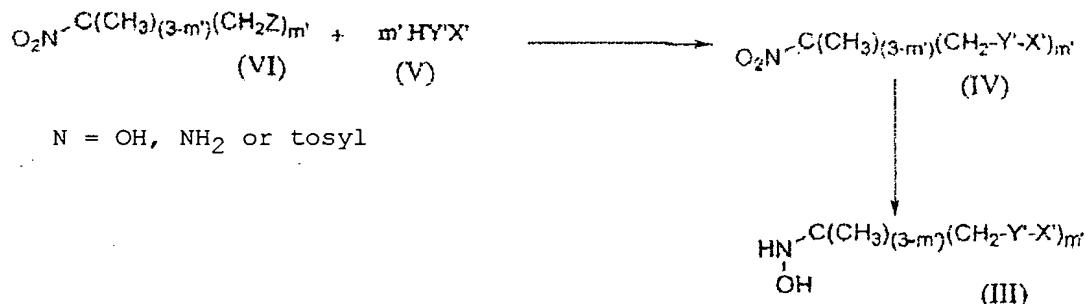
6. A process for preparing a compound

corresponding to the formula (I) as claimed in any one of claims 1 to 5, with this process being characterized in that an aldehyde corresponding to the formula (II) is reacted with a hydroxylamine corresponding to the 5 formula (III) in accordance with scheme 2 below:



Scheme 2

7. The process as claimed in claim 6, characterized in that the compound of the formula (III) is prepared in accordance with a process which is 10 described in scheme 3:



Scheme 3

8. A pharmaceutical composition comprising 15 at least one compound corresponding to the formula (I) as claimed in any one of claims 1 to 5 in a pharmaceutically acceptable excipient.

9. The use of a compound corresponding to the formula (I) as claimed in any one of claims 1 to 5 20 for preparing a drug which is intended to prevent and/or treat the effects of free radicals.

10. The use of a compound as claimed in any one of claims 1 to 5 for preparing a drug which is intended to prevent or treat the pathological 25 conditions linked to oxidative stress and to the formation of oxygen-containing free radical species.

11. The use as claimed in claim 10 for preventing or treating a pathological condition

selected from immune and inflammatory diseases, the ischemia-reperfusion syndrome, atherosclerosis, Alzheimer's disease, Parkinson's disease, lesions due to UV and ionizing radiations, Huntington's disease,
5 cancers and cellular aging.

12. A cosmetic composition, characterized in that it comprises at least one compound corresponding to the formula (I) as claimed in any one of claims 1 to 5 in a cosmetically acceptable excipient.

10 13. A cosmetic treatment method for preventing and/or treating the effects of aging, characterized in that a composition as claimed in claim 12 is applied to the skin or to the epidermal appendages.

15 14. The use of a compound corresponding to formula (I) as claimed in any one of claims 1 to 5 in organic synthesis as a free radical capturing agent in free radical reactions.